NHSBT PAEDIATRIC COMPONENTS
SPECIFICATION AND AVAILABILITY

PRESENTED BY BERNARD MORRIS
PROCESSING MANAGER
NHSBT SHEFFIELD
• PROCESSING
• DONOR SELECTION
• SPECIFICATIONS
• AVAILABILITY
Aliquots
DONOR SELECTION

- At least 1 previous donation within last 2 years
- negative for all mandatory microbiological markers
- male donors
RED CELLS FOR EXCHANGE

- Group O or ABO compatible
- K negative
- Volume 180 - 420 mls
- Plasma reduced CPD (Hct 0.50 – 0.55)
- No clinically significant antibodies and HT neg
- Less than 5 days old
- CMV antibody negative
- HbS screen negative
- Irradiated and use within 24 hours
RED CELLS FOR IUT

- Group O or ABO identical to foetus
- Negative for relevant antigens
- K negative
- CPD not SAG-M
- No clinically significant antibodies and HT neg
- CMV antibody negative
- HbS screen negative
- Irradiated and use within 24 hours
- Secondary processed exchange units (Hct 0.70 – 0.85)
- Volume 150 – 300 mls
RED CELLS IN SAG-M FOR LARGE VOLUME TRANSFUSION

- ABO and RhD compatible with the neonate
- K Negative
- In SAG-M
- No clinically significant antibodies and HT neg
- CMV Negative
- HbS Negative
- Volume 220 – 340 mls
NEONATAL TOP-UP UNITS

- In SAG-M
- Up to 35 day expiry
- 6 aliquots available
- 10-20 ml/Kg
- Volume 30 – 70 mls
- Hct 0.5 – 0.7
- Specification as per LVT
PLATELETS FOR NEONATES

- No clinically significant antibodies and HT neg
- CMV negative
- 4 aliquots available
- 60 -70 x 10⁹ platelets
- Volume 30 – 120 mls
- HPA -1a and -5b
- Bacteriologically screened
Platelets for IUT

- Hyperconcentrated
- Volume 50 – 100 mls
- Platelet conc 2000 – 4000 x10⁹ / litre
- HPA compatible (HPA 1a 5b negative)
- HT negative
- CMV negative
- Irradiated and use within 24 hours
FPF for neonates and paediatric

- Imported plasma
- Methylene blue treated and removed
- Pathogen inactivated
- NOT HT negative
- 50 ml or 200 ml aliquots available
- FV111 > 50 IU/ml
- Low titre anti-T FFP (UK sourced)
Cryoprecipitate for neonates and paediatric

• Imported plasma
• Methylene blue treated and removed
• Pathogen inactivated
• Single units
• FV111 => 50 IU/ml
• Fibrinogen => 140 mg/unit
• Volume 20 – 60 mls
• NOT HT negative
Pooled Cryoprecipitate

- Available from 1st April 2014
- Imported plasma
- Methylene blue treated and removed
- Pathogen inactivated
- Pool of 6 single MB cryo
- Volume 100 – 320 ml
- FV111 =>250 IU/ml
- Fibrinogen => 700 mg/unit
- NOT HT negative
STOCK AVAILABILITY

- **Red cell splits** - group O held as stock item
  
  (and group A in some centres)

- **Exchange units** - limited stock item
  
  (group O negative and O R1R1)

- **LVTs** - stock item

- **Platelet splits** - stock item

- **Frozen products** – stock item
OTHER AVAILABILITY

- **IUT** – 24 hours notice for planned procedures
  
  urgent requests 4 hours notice (6 hours notice outside normal working hours)

- **Platelets for IUT** – special order only
  
  7 days notice required